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EXAMINER
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ART UNIT	PAPER NUMBER
2142	

DATE MAILED: 04/13/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
	09/897,708	COSTANZO ET AL.
Office Action Summary	Examiner	Art Unit	
	Michael D. Meucci	2142	

-- *The MAILING DATE of this communication appears on the cover sheet with the correspondence address* --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE <u>3</u> MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.
- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on <u>06 February 2006</u>.

2a)☐ This action is **FINAL.** 2b)☒ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) <u>1,2,4-17,19-22,24-39,41-44,46-51 and 53-58</u> is/are pending in the application.

  4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) <u>1,2,4-17,19-22,24-39,41-44,46-51 and 53-58</u> is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☒ The drawing(s) filed on <u>04 May 2005</u> is/are: a)☒ accepted or b)☐ objected to by the Examiner.

  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

  a)☐ All b)☐ Some * c)☐ None of:

  1.☐ Certified copies of the priority documents have been received.

  2.☐ Certified copies of the priority documents have been received in Application No. _____.

  3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

  * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1)☒ Notice of References Cited (PTO-892)
2)☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3)☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
   Paper No(s)/Mail Date _____.

4)☐ Interview Summary (PTO-413)
   Paper No(s)/Mail Date. _____.
5)☐ Notice of Informal Patent Application (PTO-152)
6)☐ Other: _____.

DETAILED ACTION

1.   This action is in response to the Request for Continued Examination (RCE) filed

06 February 2006.

Claim Rejections - 35 USC § 103

2.   The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

3.   Claims 1, 21, 43, and 50 rejected under 35 U.S.C. 103(a) as being unpatentable

over Matthews, III (U.S. 5,600,368) hereinafter referred to as Matthews, in view of Fryer

(U.S. 6,233,428 B1), Gear et al. (U.S. 5,170,252) hereinafter referred to as Gear, and

Sato et al. (U.S. 5,884,004) hereinafter referred to as Sato.

        a.   As per claims 1, 21, 43, and 50, Matthews teaches: plurality of audio and

video sources containing information referring to an event (lines 44-56 of column 3 and

Fig. 2); a streaming server, streaming the contents of a first audio file and a first video

file from the audio and video sources to a user (lines 1-15 of column 6); user operated

control unit communicating with feed distributor and controlling operation of the feed

distributor, so as to instruct the feed distributor to switch between video files, and

feeding a second video file which is different from the first video file (lines 17-46 of

column 5 and Fig. 1, 3, and 6). As per claim 21, it is well known that multiple audio files

from different sources can be used as easily as multiple video files from different

sources. Multiple audio files would give the user different points of view, with sound instead of visually.

Matthews does not explicitly teach: the feed distributor connected between the audio/video sources and the streaming server; switching to a second video file without altering the first audio file; the first audio file being interleaved with the first video file, the streaming server establishing separate sessions with the plurality of users by sending each user a separate stream; and the second video file being interleaved with the first audio file upon switching to a second video file.

However, Fryer discloses: "Broadcast server 3 is located at a regional office of or ISP office capable of serving a number of centers, and is connected to the routers by a broad bandwidth lease line, serving to split the video stream from a camera in the classroom into multiple video streams depending on demand from subscriber computers," (lines 35-40 of column 6 and shown in Fig. 1).

Gear discloses: "A system (10) has a pipeline (12) comprised of a multi-channel bi-directional video bus (14), multi-channel bi-directional audio bus (16), and a digital interprocessor communications bus (18). The pipeline (12) is equipped with a number of ports (20) where media controller (microprocessor) printed circuit cards (22) can be connected, thus providing a convenient method for connecting media devices (24) to the pipeline (12). In this manner, a media device's video input and output can be optionally connected to any of the video pipes (26) of the video bus (14). Similarly, the media device (24) audio inputs and outputs can be optionally connected to any of the audio bus (16) pipes (26)," (Abstract).

Sato discloses: "It is possible to avoid intermitting the audio presentation, however, by writing the same (common) audio data to each angle within a multi-angle scene period on the smallest angle switching unit (ILVU) level," (lines 49-53 of column 52).

It would have been obvious to one of ordinary skill in the art at the time of the applicant's invention to have the feed distributor connected between the audio/video sources and the streaming server. "For live events, broadcast to multiple centers, the regional office's video broadcast server 3 will split a single live stream into multiple streams and route each one to a participating center," (lines 25-28 of column 7 in Fryer).

It would have been obvious to one of ordinary skill in the art at the time of the applicant's invention to switch to a second video file without altering the first audio file. "Accordingly, it is an object of this invention to provide a system and method for interconnecting and mixing multiple audio and video streams associated with multiple media devices in which the different interconnections are made by the system in response to user inputs with the physical connections being transparent to the user.

It is another object of the invention to provide such a system and method which will allow video production on a desktop system by a user who is not a trained video technician." (lines 29-40 of column 2 in Gear).

It would have been obvious to one of ordinary skill in the art at the time of the applicant's invention to have the first audio file interleaved with the first video file, the streaming server establishing separate sessions with the plurality of users by sending each user a separate stream; and the second video file being interleaved with the first

audio file upon switching to a second video file. "As previously described, seamless information presentation can be achieved by arraying the data to assure contiguous information content before and after the connection points in the reproduced data, or by formatting the data in closed data units that are completely reproduced at the switching points," (lines 53-58 of column 52 in Sato).

It is for these reasons that one of ordinary skill in the art at the time of the applicant's invention would have been motivated to have the feed distributor connected between the audio/video sources and the streaming server; switching to a second video file without altering the first audio file; having the first audio file interleaved with the first video file, the streaming server establishing separate sessions with the plurality of users by sending each user a separate stream; and the second video file being interleaved with the first audio file upon switching to a second video file in the system as taught by Matthews.

4.   Claims 2-4, 9, 20, 22-24, 42, 44-46, 48, and 51-53 rejected under 35 U.S.C. 103(a) as being unpatentable over Matthews, in view of Fryer and Gear as applied to claims 1 (2-4, 9, 18, 20), 21 (22-24, 40, 42), 43 (44-46, 48), and 50 (51-53) respectively.

a.   As per claims 2, 22, 44, and 51, Matthews teaches: the user-operated control unit is a remote control unit (Abstract, lines 6-17 of column 5 and Fig. 1; 4, 5-7)

b.   As per claims 3, 23, 45, and 52, Matthews teaches: the audio and video files are streamed over a network (line 57 of column 6 through line 32 of column 7, and Fig. 4 and 7).

c.   As per claims 4, 24, 46, and 53, Matthews teaches: a client-server system

(line 57 of column 6 through line 32 of column 7, and Fig. 4 and 7); the control unit

located on the client side (lines 6-17 of column 5 and Fig. 1, 4, 6-7); and the streaming

server being located on the server side (line 57 of column 6 through line 32 of column 7

and Fig. 7).

Matthews does not explicitly teach: the feed distributor located on the server

side. However, Fryer discloses: "Broadcast server 3 is located at a regional office of or

ISP office capable of serving a number of centers, and is connected to the routers by a

broad bandwidth lease line," (lines 35-37 of column 6), and shows regional broadcast

server 3 on the server side of the system in Fig. 1.

It would have been obvious to one of ordinary skill in the art at the time of the

applicant's invention to have the feed distributor located on the server side. "[The

broadcast server] serving to split the video stream from a camera in the classroom into

multiple video streams depending on demand from subscriber computers," (lines 38-40

of column 6 in Fryer). It is for this reason that one of ordinary skill in the art at the time

of the applicant's invention would have been motivated to have the feed distributor

located on the server side in the system as taught by Matthews.

d.   As per claims 9 and 48, Matthews teaches: the plurality of audio and video

files comprise a single audio file and a plurality of video files, each video file

corresponding to a different point of view of the event (lines 16-22 of column 6).

e.   As per claims 20 and 42, Matthews teaches: switching occurs in a

preprogrammed way (lines 15-29 of column 1).

5.   Claims 5-8, 25-28, 47, and 54 rejected under 35 U.S.C. 103(a) as being

unpatentable over Matthews, in view of Fryer and Gear as applied to claims 4 (5-8), 24

(25-28), 46, and 53 respectively.

      a.   As per claims 5 and 25, Matthews teaches: the streaming server and the

feed distributor are located on the same machine (line 57 of column 6 through line 19 of

column 7 and Fig. 7).

      b.   As per claims 6 and 26, Matthews teaches: the streaming server and the

feed distributor are located on different machines (lines 28-35 of column 5 and Fig. 4).

      c.   As per claims 7 and 27, Matthews teaches: a plurality of client applications

(lines 66-67 of column 7); and client-specific user-operated control units communicating

with the feed distributor... (line 57 of column 6 through line 32 of column 7).

      d.   As per claims 8, 28, 47, and 54, Matthews teaches: the streaming server

sends difference streams to different clients, each of said clients switchably controlling

said video files independently from the other clients (line 57 of column 6 through line 32

of column 7).

      Matthews does not explicitly teach: one audio file and one video file being sent to

each of said different clients. However, Gear discloses: "The pipeline (12) is equipped

with a number of ports (20) where media controller (microprocessor) printed circuit

cards (22) can be connected, thus providing a convenient method for connecting media

devices (24) to the pipeline (12). In this manner, a media device's video input and output

can be optionally connected to any of the video pipes (26) of the video bus (14).

Similarly, the media device (24) audio inputs and outputs can be optionally connected to

any of the audio bus (16) pipes (26). The switching is accomplished through a pair of

analog multiplexers (28) whose connection options have been commanded by local

microprocessor (30) resident on the media device microprocessor control board (22):

The local microprocessor (30) receives instructions for the pipeline switch

interconnections through the interprocessor serial communications bus (18),"

(Abstract).

It would have been obvious to one of ordinary skill in the art at the time of the

applicant's invention to have one audio file and one video file being sent to each of said

different clients. "A software driver interconnects the multiple video and audio devices

(24) in different configurations in response to user inputs to a host data processing

system so that physical assignments of the device communications on the pipeline (12)

are transparent to the user," (Abstract of Gear). It is for this reason that one of ordinary

skill in the art at the time of the applicant's invention would have been motivated to have

one audio file and one video file being sent to each of the different clients in the system

as taught by Matthews.

6.   Claims 10, 32, 49, and 57 rejected under 35 U.S.C. 103(a) as being unpatentable

over Matthews, in view of Fryer and Gear as applied to claims 1, 21, 43, and 50

respectively, further in view of Hannah (U.S. 5,706,054).

Matthews teaches: A/V files are compressed before streaming (lines 16-19 of

column 8 and Fig. 4). Since the A/V files are being decoded, they must have been

encoded (compressed) before the server (inherent). Matthews also teaches switching

from one file to another in generic fashion, (lines 36-46 of column 5).

Matthews does not explicitly teach: A/V files comprise key frames; and the

control unit instructs the feed distributor to switch between the first and second A/V files

when a key frame of the second A/V file is encountered.

However, Hannah discloses: "As is well known in the art, the sequence of video

frames input at 39 can include one or more key frames, i.e. frames which are not

subject to video compression and which often are used as a reference for the start of a

particular video scene," (lines 32-3 of column 3).

It would have been obvious to one of ordinary skill in the art at the time of the

applicant's invention to have A/V files comprising key frames; and the control unit

instructs the feed distributor to switch between the first and second A/V files when a key

frame of the second A/V file is encountered. "Preferably, AFC filtering for a sequence of

video frames starts with a key frame," (lines 36-37 of column 3 in Hannah). It is for this

reason that one of ordinary skill in the art at the time of the applicant's invention would

have been motivated to have the control unit instruct the feed distributor to switch

between the first and second A/V files when a key frame of the second video A/V is

encountered in the system as taught by Matthews, Fryer, and Gear.

7.   Claims 11-12 and 33-34 rejected under 35 U.S.C. 103(a) as being unpatentable

over Matthews, in view of Fryer and Gear as applied to claims 1 and 21 respectively,

further in view of Soepenberg et al. (U.S. 6,757,305 B1) hereinafter referred to as

Soepenberg.

As per claims 11-12 and 33-34, Matthews does not explicitly teach: the event is

described through event parameters; and the user-operated control unit first requests

the event parameters...

However, Soepenberg discloses: "The pointer to the cacheable data can for

instance be the SI identification of a service event ("television program") or an

identification of where to find an interactive application or other kind of data," (lines 3-6

of column 4).

It would have been obvious to one of ordinary skill in the art at the time of the

applicant's invention to have the event described through event parameters; and have

the user-operated control unit first requests the event parameters to the feed distributor

and then instructs the streaming server to start streaming. "The information on the

required storage gives an indication on how much storage the set-top box 14 needs, to

cache all the cacheable data that is pointed to by the first element in the record. By

using the transport stream-wide or network-wide table/descriptor, the set-top box 14 can

quickly get a complete view of all the cacheable data. For each transport

stream/network, it simply parses a single SI table/descriptor, and it combines the

results. The required bandwidth for broadcasting the table/descriptor can be low, i.e.

the table only needs to be broadcast occasionally. The set-top box does not need

instant access to the table/descriptor, because an access latency does not affect the

performance of a direct interaction with the end-user," (lines 6-18 of column 4 in

Soepenberg). It is for this reason that one of ordinary skill in the art at the time of the

applicant's invention would have been motivated to have the even described through

event parameters; and have the user-operated control unit first requests the event

parameters to the feed distributor and then instructs the streaming server to start

streaming in the system as taught by Matthews, Fryer, and Gear.

8.   Claims 13, 35, and 58 rejected under 35 U.S.C. 103(a) as being unpatentable

over Matthews, in view of Fryer, Gear, and Soepenberg as applied to claims 11, 33, and

12 respectively.

Matthews teaches: a number of different points of view of the event (Fig. 2); a

unique logic identifier of each point of view (Table 1 of column 4); an initial point of view

(lines 5-7 of column 4)

Matthews does not explicitly teach: textual description of each point of view, a

size of main screen window visualizing a current point of view, a stream bandwidth, and

a duration of the event.

However, Fryer discloses: a textual description of each point of view (Fig. 4); a

stream bandwidth (lines 35-45 of column 6).

Official Notice taken of the size of a main screen window visualizing a current

point of view and the duration of the event. Window size, duration, as well as

bandwidth, and textual descriptions as disclosed in Fryer were very well known in the

art at the time of the applicant's invention. Window size is a parameter highly

dependent upon the viewing apparatus and is well known for nearly any computer

system with a graphical interface. Duration is not as important, particularly for live events in which a set length is not given, but it is also well known that for any streamed event, a time limit may be enforced by whomever is streaming the event. Textual descriptions as disclosed in Fryer as very well known in the art and can also be employed as an electronic program guide such as with a digital cable service. The stream bandwidth can be given as a parameter for limiting the stream throughput to prevent extended buffering, buffer under-run, and loss of sync problems. This was also very well known in the art at the time of the applicant's invention. It is known in the art that parameter definitions can be highly dependent upon the system and can comprise nearly any aspect of the system's resources, capabilities, and even the actions of the software/hardware.

It is for these reasons that one of ordinary skill in the art at the time of the applicant's invention would have been motivated to provide parameters comprising a textual description, main screen window size, stream bandwidth, and duration of the event in the system as taught by Matthews, Fryer, Gear, and Soepenberg.

9.   Claims 14 and 36 rejected under 35 U.S.C. 103(a) as being unpatentable over Matthews, in view of Fryer, Gear, and Soepenberg as applied to claims 13 and 35 respectively, further in view of Aldred et al. (U.S. 5,649,105) hereinafter referred to as Aldred.

Matthews does not explicitly teach: the logic identifier of each point of view is locally defined.

However, Aldred discloses: "channel_set_id, is a user defined identifier that

informs the system that a logical channel belongs to a set of channels," (lines 20-21 of

column 28).

It would have been obvious to one of ordinary skill in the art at the time of the

applicant's invention to have the logic identifier of each point of view be locally defined.

"The channel_set_id must be unique within an application sharing set, any channel that

is to be part of the set must specify the same identifier," (lines 22-24 of column 28 in

Aldred). It is for this reason that one of ordinary skill in the art at the time of the

applicant's invention would have been motivated to have the logic identifier of each

point of view defined locally in the system as taught by Matthews, Fryer, Gear, and

Soepenberg.

10.   Claims 15 and 37 rejected under 35 U.S.C. 103(a) as being unpatentable over

Matthews, in view of Fryer and Gear as applied to claims 1 and 21 respectively, further

in view of Gordon et al. (U.S. 6,208,335 B1) hereinafter referred to as Gordon and

Burnard et al. (U.S. 5,613,122) hereinafter referred to as Burnard.

It is inherent in the system that the feed distributor contains a stream reader.

The feed distributor is in-line in the system as disclosed by the applicant as well as in

the system of Matthews. It is also inherent that the streaming server comprises a

stream producer in both systems.

Matthews does not explicitly teach: "the feed distributor comprises a servers

session manager, a theatre descriptor, and a stream reader; the streaming server

comprising a stream producer; and the user-operated control unit comprises an interface builder.

However, Gordon discloses: "The information server 108 is coupled to the video session manager via data path 116, synchronization clock path 118 and control path 120. The server 108 provides data streams on path 116 and a synchronization clock on path 118 in response to requests for information from the video session manager on path 120," (lines 51-56 of column 4). Gordon also teaches: "The function of the navigator is generated through the use of Navigator descriptor files," (lines 32-33 of column 8).

Burnard discloses: "A user interface builder program allows a user to graphically design windows, dialogs, and view hierarchies," (lines 31-32 of column 29).

It would have been obvious to one of ordinary skill in the art at the time of the applicant's invention to have the feed distributor comprise a session manager. "The video session manager 122 accomplishes all of the transmission interface requirements of the system 100," (lines 59-60 of column 4 in Gordon). It would also have been obvious to have the feed distributor comprise a theatre descriptor. "These files are used as the basis for construction of all navigator applet screens. A navigator descriptor file defines specific objects (e.g., graphical bitmap, audio, animation and the like) to be used, their physical location on the navigator menu screen, and their interactions with the subscriber's remote control actions. The navigator asset builder software program uses the navigator descriptor files to generate the final pseudo MPEG bitstream that is sent to the set top terminal. The asset builder reads the objects as defined by the

navigator asset builder and combines them with the appropriate control information also

contained in the navigator descriptor files," (lines 33-45 of column 8 in Gordon). It is

presumed by the examiner that "theatre" is to be used as a location descriptor which is

fully disclosed by Gordon.

It would have been obvious to one of ordinary skill in the art at the time of the

applicant's invention to have the user-operated control unit comprise an interface

builder. "By choosing various User Interface (UI) elements from a menu or palette, a

user can build a window or dialog that can be used from another program," (lines 33-35

of column 29 in Burnard).

It is for this reason that one of ordinary skill in the art would have been motivated

to have the feed distributor comprise a session manager and a theatre descriptor and

have the user-operated control unit comprise an interface builder in the system as

taught by Matthews, Fryer, and Gear.

11.   Claims 16-17 and 38-39 rejected under 35 U.S.C. 103(a) as being unpatentable

over Matthews, in view of Fryer and Gear as applied to claims 1 and 21 respectively,

further in view of Hazra (U.S. 6,510,553 B1).

a.   As per claims 16 and 38, Matthews does not explicitly teach: streaming

server streams additional A/V files which are output on secondary windows on the user

screen, the secondary windows being different from a main window where the first A/V

file is output.

However, Hazra discloses: "Data files corresponding to the subscribed layers of the first and second sources may be received in a stream over the fixed bandwidth communications path, output files may be produced which correspond to the received data files for the first source, and output files may be produced corresponding to the received data files for the second source. The output files for the first source may be displayed in a first portion or window of a display, and output files for the second source may be simultaneously displayed in a second portion or window of the display, thereby providing a picture-in-picture (PIP) display for streaming digital video," (Abstract).

It would have been obvious to one of ordinary skill in the art at the time of the applicant's invention to have the streaming server stream additional A/V files, which are output on secondary windows on the user screen, the secondary windows being different from a main window where the first A/V file is output. "The two decoded video sequences from these layers may be displayed in the PIP format as shown. The client system also subscribes to an audio stream corresponding to the primary source (at time T1, this is from file source A). At some time T262, the user may decide to switch the focus between the two windows. This may be indicated by double clicking a computer mouse button when a mouse pointer is over the PIP area, for example, although any method of indicating input to the graphical user interface may be employed. As a result of the switch indication, the client changes the current subscription of sources to accept only the base layer 58 of file source A, but to accept the base layer 60 and the enhancement layers 64 of file source B. This results in a change to the display whereby video data files from file source B are the primary source shown in the first portion 52 of

the screen and video data files from file source A are the secondary source shown in

the second portion 54 of the screen. The switch may be delayed by a small time

interval so that subscription changes may be synchronized with key frames in the

stream that are assumed to be present at regular intervals. At the time of the switch,

the audio subscription may also be changed to maintain the association with the

appropriate source selected as the primary source," (lines 31-51 of column 7 in Hazra).

It is for this reason that one of ordinary skill in the art at the time of the applicant's

invention would have been motivated to have the streaming server stream additional

A/V files, which are output on secondary windows on the user screen, the secondary

windows being different from a main window where the first A/V file is output in the

system as taught by Matthews, Fryer, and Gear.

b.   As per claims 17 and 39, Matthews does not explicitly teach: additional

A/V files occupy bandwidth which is reduced when compared with the bandwidth

occupied by said first A/V files.

However, Hazra discloses: "At time T1 50, a user of client system 38 selects the

multimedia content from file source A 32 as the primary source of the stream and the

multimedia content from file source B 34 as a secondary source of the stream. As a

result of this selection, video data from the primary source may be shown on a display

in a first portion 52 of the screen, and video data from the secondary source may be

shown on the display in a second portion 54 of the screen, thereby providing PIP

capability," (lines 8-17 of column 7).

It would have been obvious to one of ordinary skill in the art at the time of the

applicant's invention to have additional A/V files occupy bandwidth which is reduced

when compared with the bandwidth occupied by said first A/V files. "The first portion

may be larger than the second portion because more information for display is being

received for the primary source as compared to the secondary source," (lines 17-20 of

column 7 in Hazra).

It is for this reason that one of ordinary skill in the art at the time of the applicant's

invention would have been motivate to have additional A/V files occupy bandwidth

which is reduced when compared with the bandwidth occupied by said first A/V files in

the system as taught by Matthews, Fryer, and Gear.

12.   Claims 19 and 41 rejected under 35 U.S.C. 103(a) as being unpatentable over

Matthews, in view of Fryer and Gear as applied to claims 7 and 27 respectively, further

in view of Kunda/McCanta (Google Groups).

Matthews does not explicitly teach: a user controls switching for a number of

other users. However, McCanta questions: "

>   I don't know what would hold you

>back from doing this. You would simply be limited to having the same

>channel on all of the TV's without buying more special equipment. That's

>where the catch is, as I understand things."

In response, Kunda discloses: "If individual channel selection at the various tv's is

not needed, then the output from the receiver to the tv may be split (using the $15

splitter/amps you mentioned) to as many tv's as desired. If you make sure the satellite receiver you buy uses a UHF remote, then changing channels from any tv is quite simple."

It would have been obvious to one of ordinary skill in the art at the time of the applicant's invention to have a user controlling the switching for a number of other users. Motivation comes in Kunda's response in that the channel may be changed on multiple televisions that are connected to a single receiver via a splitter. It is for this reason that one of ordinary skill in the art at the time of the applicant's invention would have been motivated to have a user controlling the switching for a number of other users in the system as taught by Matthews, Fryer, and Gear.

13.   Claim 29 rejected under 35 U.S.C. 103(a) as being unpatentable over Matthews, in view of Fryer and Gear as applied to claim 21, further in view of Danneels et al. (U.S. 5,410,698) hereinafter referred to as Danneels.

Matthews does not explicitly teach: the plurality of audio and video files comprise a single video file and a plurality of audio files.

However, Danneels discloses: "For example, the video and English audio data streams of the first television program may be related together to form a first channel. That same video data stream may be related to the Spanish audio data stream to form a second channel," (lines 39-43 of column 4).

It would have been obvious to one of ordinary skill in the art at the time of the applicant's invention to have the plurality of audio and video files comprise a single

video file and a plurality of audio files. "Multicast system 100 comprises a single server

102 and multiple clients 104 linked by network 106. Server 102 captures and posts

data on network channels, with any number of clients 104 independently selecting

channels for receipt and play," (lines 10-15 of column 4 in Danneels).

It is for this reason that one of ordinary skill in the art at the time of the applicant's

invention would have been motivated to have the plurality of audio and video files

comprise a single video file and a plurality of audio files in the system as taught by

Matthews, Fryer, and Gear.

14.   Claims 30-31 rejected under 35 U.S.C. 103(a) as being unpatentable over

Matthews, in view of Fryer, Gear, and Danneels as applied to claim 29.

As per claims 30-31, Matthews does not explicitly teach: each audio file

corresponds to a different listening point of the event and a different audio source.

However, Danneels discloses: "Server 102 is capable of capturing analog audio

and video files from three different sources: (1) files generated locally by camera 108,

(2) files received by antenna 110 from a remote source, and (3) recorded files from VCR

112," (lines 16-20 of column 4).

It would have been obvious to one of ordinary skill in the art at the time of the

applicant's invention to have each audio file correspond to a different listening point of

the event and a different source. "Multicast system 100 comprises a single server 102

and multiple clients 104 linked by network 106. Server 102 captures and posts data on

network channels, with any number of clients 104 independently selecting channels for

receipt and play," (lines 10-15 of column 4 in Danneels).

It is for this reason that one of ordinary skill in the art at the time of the applicant's

invention would have been motivated to have each audio file corresponds to a different

listening point of the event and a different source in the system as taught by Matthews,

Fryer, and Gear.

15.   Claims 55-56 rejected under 35 U.S.C. 103(a) as being unpatentable over

Matthews, in view of Fryer and Gear as applied to claim 50, further in view of Danneels.

Matthews does not explicitly teach: the plurality of audio and video files comprise

a single video file and a plurality of audio files; and each audio file corresponds to a

different listening point of the event.

However, Danneels discloses: "For example, the video and English audio data

streams of the first television program may be related together to form a first channel.

That same video data stream may be related to the Spanish audio data stream to form

a second channel," (lines 39-43 of column 4). Danneels also discloses: "Server 102 is

capable of capturing analog audio and video files from three different sources: (1) files

generated locally by camera 108, (2) files received by antenna 110 from a remote

source, and (3) recorded files from VCR 112," (lines 16-20 of column 4).

It would have been obvious to one of ordinary skill in the art at the time of the

applicant's invention to have the plurality of audio and video files comprise a single

video file and a plurality of audio files. "Multicast system 100 comprises a single server

102 and multiple clients 104 linked by network 106. Server 102 captures and posts

data on network channels, with any number of clients 104 independently selecting

channels for receipt and play," (lines 10-15 of column 4 in Danneels).

It would have been obvious to one of ordinary skill in the art at the time of the

applicant's invention to have each audio file correspond to a different listening point of

the event and a different source. "Multicast system 100 comprises a single server 102

and multiple clients 104 linked by network 106. Server 102 captures and posts data on

network channels, with any number of clients 104 independently selecting channels for

receipt and play," (lines 10-15 of column 4 in Danneels).

It is for these reasons that one of ordinary skill in the art at the time of the

applicant's invention would have been motivated to have the plurality of audio and video

files comprise a single video file and a plurality of audio files and have each audio file

correspond to a different listening point of the event and a different source in the system

as taught by Matthews, Fryer, and Gear.

16.   Claims 59-62 rejected under 35 U.S.C. 103(a) as being unpatentable over

Matthews, in view of Fryer and Gear as applied to claims 1, 21, 43, and 50 respectively,

further in view of Official Notice.

As per claims 59-62, Matthews does not explicitly teach: the first and second

audio files are audio files and the first and second video files are video files. However,

Official Notice is taken of the audio/video files being audio/video files. It would have

been obvious to one of ordinary skill in the art at the time of the applicant's invention to

store an audio/video file in Matthews as a file for storage purposes or for transport

across a computer network. Motivation comes simply from the formatting requirement

necessitated by computer networks. It is for this reason that one of ordinary skill in the

art at the time of the applicant's invention would have been motivated to store and

audio/video file as a file in the system as taught by Matthews, Fryer, and Gear.

Response to Arguments

17.   Applicant's arguments with respect to claims 1, 21, 43, and 50 have been

considered but are moot in view of the new ground(s) of rejection. See new grounds of

rejection for these claims above.

Conclusion

18.   The prior art made of record and not relied upon is considered pertinent to

applicant's disclosure.

Katzfey (U.S. 4,361,852) discloses interleaving video and audio.

Sochor (U.S. 4,547,816) discloses interleaving video and audio on the same

track.

Sohn (U.S. 5,247,300) discloses automatic audio/video signal combining.

Shima (U.S. 5,673,357) discloses switching video and keeping the same

interleaved audio track.

Parry et al. (U.S. 2005/0235112 A1) discloses a system for handling streaming

information.

19.   Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Michael Meucci at (571) 272-3892. The examiner can

normally be reached on Monday-Friday from 9:00 AM to 6:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Andrew Caldwell, can be reached at (571) 272-3868. The fax phone

number for this Group is 571-273-8300.

Communications via Internet e-mail regarding this application, other than those

under 35 U.S.C. 132 or which otherwise require a signature, may be used by the

applicant and should be addressed to [michael.meucci@uspto.gov].

All Internet e-mail communications will be made of record in the application file.

PTO employees do not engage in Internet communications where there exists a

possibility that sensitive information could be identified or exchanged unless the record

includes a properly signed express waiver of the confidentiality requirements of 35

U.S.C. 122. This is more clearly set forth in the Interim Internet Usage Policy published

in the Official Gazette of the Patent and Trademark on February 25, 1997 at 1195 OG

89.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for published

applications may be obtained from either Private PAIR or Public PAIR. Status

information for unpublished applications is available through Private PAIR only. For

more information about the PAIR system, see http://pair-direct.uspto.gov. Should you

have questions on access to the Private PAIR system, contact the Electronic Business

Center (EBC) at 866-217-9197 (toll-free).

BEATRIZ PRIETO
PRIMARY EXAMINER